BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLY ZONE

ame of work : Construction of Toilet to Shettyhalli Anganwadi building and other works in ward No 12, Shettyhalli sub division

stimated Cost : Rs 5.00 Lakhs			P code-3294				Job No : 012-19-000022		
Sl. No.	Description of work	Unit	Measurements				Qty	Rate	Amount
			No	L	B	D			
1	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 **Page No. 6 / Item No. 2.3 of PWD SR 2018-19**									
	Anganwadi - Toilet								
		cum	2	2.00	0.90	1.00	3.60		
			2	0.80	0.90	1.00	1.44		
	sanitary line		2	30.00	0.90	1.20	64.80		
							69.84	322.92	**22553.00**
	Basic Rate	299.00							
	Area Weightage @ 8%	23.92							
	Total	**322.92**							
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.13, Item No. 4.3 of PWD SR 2018-19**									
	Foundation	cum	2	2.00	0.90	0.15	0.54		
			2	0.80	0.90	0.15	0.22		
			1	2.00	2.00	0.15	0.60		
	flooring Toilet 1		1	1.00	1.30	0.15	0.20		
	Toilet 2		1	1.00	1.30	0.15	0.20		
							1.75	5510.16	**9621.00**
	Basic Rate	5102.00							
	Area Weightage @ 8%	408.16							
	Total	**5510.16**							
3	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6, stone** hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 25 / Item No. 5.6, PWD SR 2018-19**									

	cum	2	2.00	0.75	0.60	1.80		
		2	0.95	0.75	0.60	0.86		
						2.66	4963.68	**13179.00**
Basic Rate	4596.00							
Area Weightage @ 8%	367.68							
Total	**4963.68**							
4	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 25 / Item No. 5.9, PWD SR 2018-19**							
	cum	2	2.00	0.45	0.45	0.81		
		2	1.25	0.45	0.45	0.51		
						1.32	5921.64	**7794.00**
Basic Rate	5483.00							
Area Weightage @ 8%	438.64							
Total	**5921.64**							
5	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms, in depth, compacting each deposited layers by ramming after watering with lead upto 50m, and lift upto 1.5m, including cost of all labour complete as per specifications, specification. No. KBS 2.9, **Page No. 7 / Item No. 2.10 / PWD SR 2018-19**							
	cum	Qty Vide Item No. 2				**69.84**		
						69.84	217.08	**15160.87**
Basic Rate	201.00							
Area Weightage @ 8%	16.08							
Total	**217.08**							
6	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing, main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2018-19**							
Plinth	cum	2	2.00	0.45	0.20	0.36		
Lintel		2	2.00	0.15	0.15	0.09		
Roof Slab		1	2.00	2.30	0.15	0.69		
						1.14	5879.52	**6703.00**
Basic Rate	5444.00							
Area Weightage @ 8%	435.52							
Total	**5879.52**							

	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. **KBS No.5.4 (P 27 It 5.26.2) PWD SR 2018-19** (400x150x200 mm)								
	Long Wall	Sqm	2	2.00		2.50	10.00		
	Short Wall		2	1.50		2.50	7.50		
							17.50		
	Deduct for Openings Door		1	0.75		2.00	1.50		
	Ventilator		1	0.75		0.45	0.34		
							1.84		
							15.66	997.92	**15630.00**
	Basic Rate	924.00							
	Area Weightage @ 8%	73.92							
	Total	**997.92**							
8	KSRB 10-3 : Providing and laying **integral cement based waterproofing treatment** including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treawalls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications. **Page No. 68, Item No. 10.2 of PWD SR 2018-19**								
		Sqm	1	2.00	2.00		4.00		
							4.00	1086.48	**4346.00**
	Basic Rate	1006.00							
	Area Weightage @ 8%	80.48							
	Total	**1086.48**							
9	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to **ceiling** including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 116, Item No. 15.21 of PWD SR 2018-19**								
	Inside Toilet 1		1	1.50	1.50		2.25		
							2.25	253.80	**571.00**
	Basic Rate	235.00							
	Area Weightage @ 8%	18.80							
	Total	**253.80**							

	KSRB15-3.12 :Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 116, Item No. 15.18 of PWD SR 2018-19**								
	Inside wall Toilet	Sqm	2	1.50		2.50	7.50		
			2	1.50		2.00	6.00		
							13.50		
	Deductions - For door		1	0.75		2.00	1.50		
							1.50		
							12.00	312.12	**3745.00**
	Basic Rate	289.00							
	Area Weightage @ 8%	23.12							
	Total	**312.12**							
11	KSRB15-3.9 :Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 116 / Item No. 15.17, PWD SR 2018-19 (Outside Wall)**								
	Out Side	sqm	4	2.00		3.25	26.00		
							26.00		
	Deductions for Ventilor		1	0.75		0.45	0.34		
							0.34		
							25.66	264.60	**6790.00**
	Basic Rate	245.00							
	Area Weightage @ 8%	19.60							
	Total	**264.60**							
12	Providing and fixing **colour glazed tiles of size 300mmx600mm** for walls with borders of size 300x100mm, set in Cement Mortar 1:3 and pointed with white cement with matching colour pigment with necessary curing, cleaning including providing and removing scaffolding wherever necessary etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for equipment, etc., complete as per specification. **Page No. 112, Item No. 14.64, PWD SR 2018-19**								
	Flooring	sqm	1	1.00	1.50		1.50		
							1.50	1308.96	**1963.00**
	Basic Rate	1212.00							
	Area Weightage @ 8%	96.96							
	Total	**1308.96**							

	KSRB 14-17.2 : Providing **skirting, dado, rises** of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 - Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 60 cms. **Page No.108, Item No. 14.41.2 PWD SR 2018-19**								
	Toilet	Sqm	1	5.00	1.40		7.00		
							7.00	1762.56	**12338.00**
	Basic Rate	1632.00							
	Area Weightage @ 8%	130.56							
	Total	**1762.56**							
14	Supplying and fixing pressed **steel door** frames size 125x65 mm manufactured from 1.25mm thick carbon steel or imported steel strips with mitred joints of 900 for door openings and shutters made out of seasoned Honne wood, styles of 30 mm, thick with lock rail of 160 mm, width, top and side rails of 100 mm. width and bottom rails of 250 mm width and panel filling with 12mm thick particle board of exterior grade bonded with phenol formal dehide resin and the shutter shall be rot proof, vermin proof, heat resistant guaranteed against shrinkage, warpage and such other defects for a period of 3 years. This shall be as per approved drawings, specification and direction including cost of conveyance, manufacturing, painting with enamel paint 2 coats over primer coat, cost of labour for all items of work, machinery, equipment and all other incidental charges with all lead, lift, loading and unloading etc., complete. The Hollow portion of the frame to be filled with cement concrete 1:2:4. **Page No. 42 / Item No. 7.26, PWD SR 2018-19**								
		Sqm	1	0.75		2.10	1.58		
	Basic Rate	3210.00					**1.58**	3466.80	**5460.00**
	Area Weightage @ 8%	256.80							
	Total	**3466.80**							

	Providing and fixing cold rolled prepainted steel windows of IS standards, made out of 0.6mm thick deep drawing quality galvanised on both sides 120gms/sq.mtr. Primer coat upto 5 microns with thermosetting epoxy resin and finish painted with a polyester based paint 20 microns thick. The size of profiles is approximately 46 x 52mm for external frames, 46x46mm section for shutters, 46x70mm section for centre mullion/transom and 18x31mm section is for fixing glasses. The section should be cut to length joint mitred and assembling by means of corner brackets made out of cold rolled cold annealed strips of 1.2mm thick duly galvanised and fixed with nickle plated self taping screws.The shutters are provided with approved quality of fixtures like handles made out of zamac alloy die cast and powder coated, receiver made out of glass filled nylone and hinges made out of CRCA powder coated. 4mm thick glass should be fixed with EPDM gaskets. Guard bars fabricated out of 10mm square bright bars shall be fixed horizontally at 125mm C/C by rivetting to the external frame. The above frames are fixed to the concrete / masonry walls by means of self expanding screws." with 4mm tinted glass with gaurd bars **Page No. 41 / Item No. 7.24.1c) PWD SR 2018-19**								
	Ventilator	Sqm	6	0.75		0.45	2.03		
							2.03	5670.00	**11482.00**
	Basic Rate	5250.00							
	Area Weightage @ 8%	420.00							
	Total	**5670.00**							
16	KSRB 15-14.1 : Providing and **applying two coats with oil bound washable distemper** of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. **Page No. 119 / Item No. 15.49.1, PWD SR 2018-19**								
			Qty Vide Item No.11				**14.25**		
							14.25	118.80	**1692.90**
	Basic Rate	110.00							
	Area Weightage @ 8%	8.80							
	Total	**118.80**							
17	KSRB 15-16.1 : Providing and **finishing external walls** in two coats with **waterproof cement paint** of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. with primer. **Page No. 120 / Item No. 15.53.2, SR 2018-19**								
		Sqm	Qty Vide Item No.12				**25.66**		
							25.66	108.12	**2774.63**
	Basic Rate	102.00							
	Area Weightage @ 6%	6.12							
	Total	**108.12**							

	SRB 11-1 : Providing and fixing white vitreous **china clay, water closet Indian type** Squatting pan) of size 580mm with footrests, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 **Page No. 79 / Item No. 12.1 / PWD SR 2018-19**								
		Each	1				**1.00**	3716.36	**3716.00**
	Basic Rate	3506.00							
	Area Weightage @ 6%	210.36							
	Total	**3716.36**							
19	KSRB 11-7.1 : Providing and fixing white vitreous china clay, flat back, lipped front **urinal basin** of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 **Page No. 80, Item No. 12.7, PWD SR 2018-19**								
			1				**1.00**	3256.32	**3256.00**
	Basic Rate	3072.00							
	Area Weightage @ 6%	184.32							
	Total	**3256.32**							
20	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat **back wash basin size 630x450mm** with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 **Page No. 82, Item No. 12.23, PWD SR 2018-19**								
			1				**1.00**	4327.56	**4328.00**
	Basic Rate	4007.00							
	Area Weightage @ 8%	320.56							
	Total	**4327.56**							
21	Providing and fixing **Chorinated Poly Venyl Chloride (CPVC) pipes** conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - 25mm nominal OD pipes. (**P.No. 99/I.No. 13.85.3 of CSR 2018-19**)								
		mtr	1	20.00			**20.00**		
							20.00	211.68	**4233.60**

	Basic Rate	196.00							
	Area Weightage @ 8%	15.68							
	Total	**211.68**							
	Providing and fixing **Chorinated Poly Venyl Chloride (CPVC) pipes** conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - 20 mm nominal OD pipes. **(P.No. 98/I.No. 13.85.2 of CSR 2018-19)**								
		mtr	1	20.00			**20.00**		
							20.00	169.56	**3391.20**
	Basic Rate	157.00							
	Area Weightage @ 8%	12.56							
	Total	**169.56**							
23	KSRB 13-11: Providing and placing on terrace, polyethylene water storage tanks as per IS 12701:1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM and testing complete as per specifications. (For 1000 litre capacity) Specification No.KBS 13.22 **(P.No. 96 / I.No. 13.78 of PWD SR 2018-19)**								
		Nos	1	1.00			1.00		
	Basic Rate	6228.00					**1.00**	6601.68	**6601.68**
	Area Weightage @ 8%	373.68							
	Total	**6601.68**							
24	KSRB13-6.1-3 : Providing and fixing in position brass **bib cock** of approved quality 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3. **(P.No.93/ I.No. 13.25 of CSR 2018-19)**								
			2				2	254.88	**509.76**
	Basic Rate	236.00							
	Area Weightage @ 8%	18.88							
	Total	**254.88**							
25	KSRB 11-18-1.1 : Providing and fixing sand cast iron soil waste and vent pipes 100mm dia with spun yarn soaked in cement slurry and cement mortar 1:2 including cost of materials, labour, testing complete as per specifications. KBS 11-1.10 **Page No. 85, Item No. 12.47, PWD SR 2018-19**								
			1	1.00			**1.00**	719.28	**719.28**
	Basic Rate	666.00							
	Area Weightage @ 8%	53.28							
	Total	**719.28**							

	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and preparing the ground manually (other than foundation of buildings, culverts, road cuts and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. **KBS 2.1(a) / 2.3.1(P 6 It 2.1) PWD SR 2018-19**								
		cum	1	25.00	0.60	1.20	18.00		
							18.00	**251.64**	**4530.00**
	Basic Rate	**149.00**							
	add loading & unloading charges	68.00							
	lead for 5 km=5*1.28*2.5	16.00							
		233.00							
	add AW 8%	18.64							
		251.64							
27	KSRB 12-1.2 : Providing and laying in position to required level or slope **150mm internal diameter salt glazed stoneware** pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints,including cost of materials, labour charges complete as per specifications. Specification No. KBS 12.2.5 12.7 (P 72 It 11.2) PWD SR 2018-19								
		mtr	**1**	**10**			**10.00**		
	Basic rate	368.00					**10.00**	**390.08**	**3,900.80**
	Add AW 6%	22.08							
		390.08							
28	**Earthwork excavation for** foundation of buildings, **water supply,** sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications **(P.NO - 6, I.NO - 2.3, PWD SR-2018-19)**								
		Cum	1	200.00	0.60	0.90	108.00		
			1	285.00	0.60	0.90	153.90		
							261.90	315.98	**82755.00**
	Basic Rate	299.00							
	6% area weightage	16.98							
	Total	**315.98**							
29	KSRB13-8 ; Providing and fixing to wall, ceiling and floor, medium density polyethylene pipes 6.00 kgs/sq.cm working pressure of outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour charges, HOM and testing complete as per specifications. Specification No.KBS 13.2.15.1 /13.9 for internal water supply connection KSRB 13-8.6 : -do- 63 mm dia **(P.NO - 96, I.NO - 13.70.2 B, PWD SR 2018-19)**								

	Tewell Surroundings	Mtr	1	200.00			200.00		
	Repairing existing damaged pipes		1	285.00			285.00		
							485.00	305.91	**148366.35**
	Basic Rate	297.00							
	add aw @ 3%	8.91							
		305.91							
	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications **(P 6, It - 2.11, PWD SR-2018-19)**								
		Cum	1	200.00	0.60	0.90	108.00		
			1	285.00	0.60	0.90	153.90		
			1	25.00	0.60	1.20	18.00		
							279.90	128.26	**35900.00**
	Basic Rate	121.00							
	6% area weightage	7.26							
	Total	**128.26**							
							Sub Total		**444011.07**
									53281.33
31	**Add GST 12%**							L.S	**2707.61**
32	**Miscellaneous and unforeseen charges**						**Grand Total**		**500000.00**

(Rupees Five Lakhs Only)

1 *Certified that the work is not split*
2 *Certified that the estimate is based on PWD SR Bangalore Circle SR of 2018-19*
3 *Certified that Adegate & necessary provisions have made in the estimate.*
4 *Certified that the above area comes under BBMP limit*

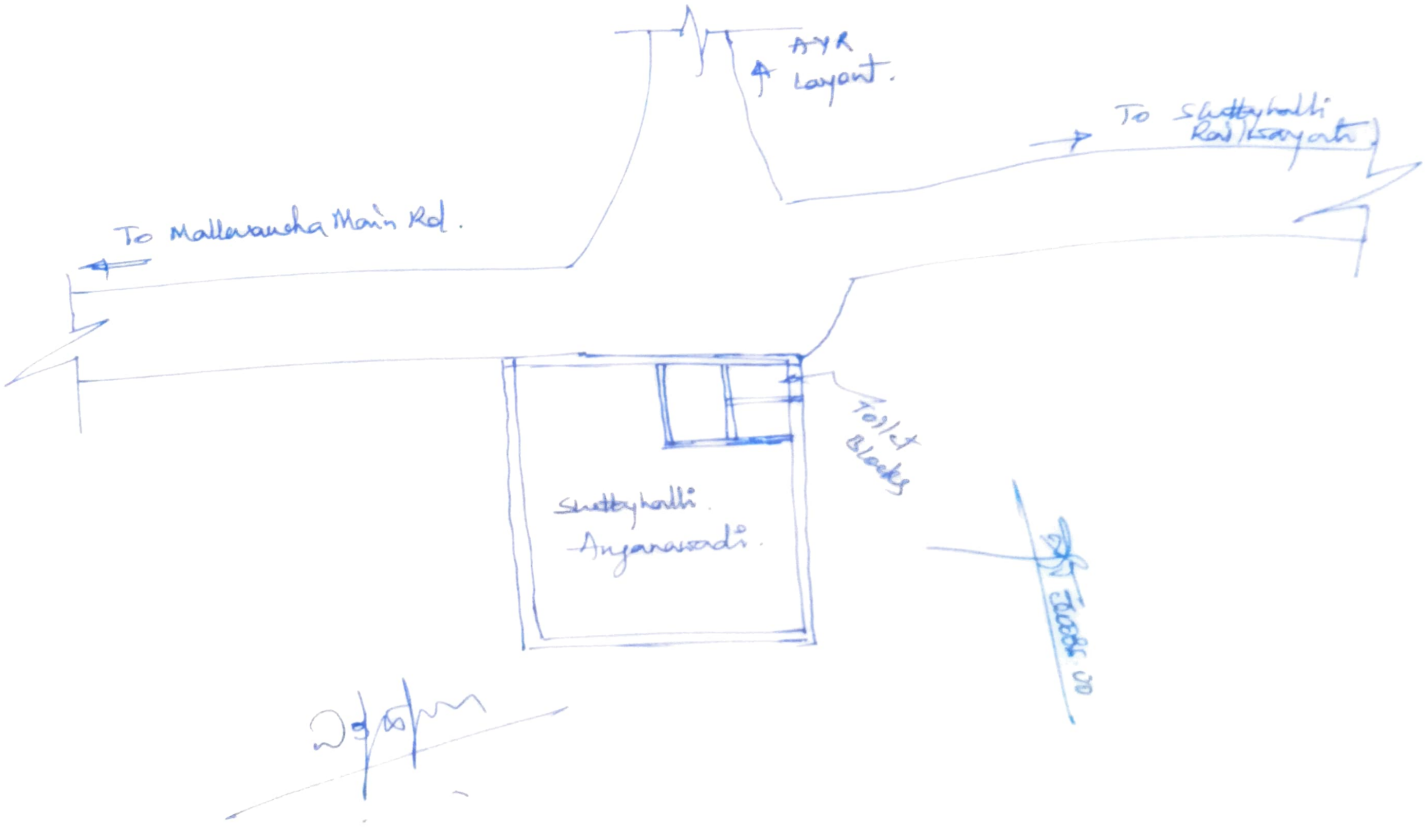
Asst Engineer
Ward-12

Asst.Executive Engineer
Shetty halli Sub Division

Executive Engineer
Dasharahalli Division

ADMINISTRATIVELY SANCTIONED FOR
(Rupees Five lakhs only/-
Rs 5.00 lakhs/-
Under the Head of Account P-32.94
14th Finance Commission
Registered as no EE(D.D.)/AS.153/20-21 Subject
to conditions contained in Enclosed Memo
No. EE/DD/AS.1.153/20-21, Dt: 17.11.2020
Exe. Engg
(DASARAHALLI) BBMP
JE/AE.

ನಂ. EE/DD/TS/37/2020-21 ದಿನಾಂಕ : 17.11.2020.
ರೂ. Five Lakhs only/- (Rs 5.00 Lakhs only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು


AYR Layout.
To Shettyhalli Road (Layout)
To Mallasandra Main Rd.
Toilet Blocks
Shettyhalli Anganawadi.
Trees